Mahito Sasada

List of Publications by Year in Descending Order

63 papers	4,056 citations	21 h-index	63 g-index
63 ext. papers	6,533 ext. citations	5.4 avg, IF	3.43 L-index

#	Paper	IF	Citations
63	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. *Astrophysical Journal*, **2022**, 925, 13	4.7	2
62	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. *Astrophysical Journal Letters*, **2022**, 930, L14	7.9	20
61	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. *Astrophysical Journal Letters*, **2022**, 930, L21	7.9	9
60	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. *Astrophysical Journal Letters*, **2022**, 930, L17	7.9	14
59	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. *Astrophysical Journal Letters*, **2022**, 930, L13	7.9	16
58	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. *Astrophysical Journal Letters*, **2022**, 930, L15	7.9	16
57	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. *Astrophysical Journal Letters*, **2022**, 930, L12	7.9	23
56	Selective Dynamical Imaging of Interferometric Data. *Astrophysical Journal Letters*, **2022**, 930, L18	7.9	7
55	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2022**, 930, L19	7.9	11
54	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. *Astrophysical Journal Letters*, **2022**, 930, L20	7.9	8
53	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. *Astrophysical Journal Letters*, **2022**, 930, L16	7.9	18
52	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. *Astrophysical Journal Letters*, **2021**, 910, L14	7.9	28
51	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. *Astrophysical Journal Letters*, **2021**, 910, L13	7.9	70
50	Calcium-rich Transient SN 2019ehk in a Star-forming Environment: Yet Another Candidate for a Precursor of a Double Neutron-star Binary. *Astrophysical Journal*, **2021**, 912, 30	4.7	4
49	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. *Astrophysical Journal*, **2021**, 912, 35	4.7	7
48	Time-resolved spectroscopy and photometry of M dwarf flare star YZ Canis Minoris with OISTER and TESS: Blue asymmetry in the H□ line during the non-white light flare. *Publication of the Astronomical Society of Japan*, **2021**, 73, 44-65	3.2	15
47	J-GEM optical and near-infrared follow-up of gravitational wave events during LIGO□ and Virgo□ third observing run. *Progress of Theoretical and Experimental Physics*, **2021**, 2021,	5.4	2

46	Origin of the UV to X-Ray Emission of Radio Galaxy NGC 1275 Explored by Analyzing Its Variability. *Astrophysical Journal*, **2021**, 906, 30	4.7	2
45	Optical follow-up observation for GW event S190510g using Subaru/Hyper Suprime-Cam. *Publication of the Astronomical Society of Japan*, **2021**, 73, 350-364	3.2	5
44	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. *Astrophysical Journal Letters*, **2021**, 910, L12	7.9	58
43	Origins of the Long-term Variability of the Near-infrared Emission of the Black Hole X-Ray Binary GRS 1915+105 in the X-Ray Low Luminous State. *Astrophysical Journal*, **2021**, 916, 114	4.7	0
42	Follow-up observations for IceCube-170922A: Detection of rapid near-infrared variability and intensive monitoring of TXS 0506+056. *Publication of the Astronomical Society of Japan*, **2021**, 73, 25-43	3.2	2
41	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. *Astrophysical Journal* , **2020**, 897, 139	4.7	24
40	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. *Astronomy and Astrophysics*, **2020**, 640, A69	5.1	21
39	SN 2019ein: New Insights into the Similarities and Diversity among High-velocity Type Ia Supernovae. *Astrophysical Journal*, **2020**, 893, 143	4.7	12
38	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. *Astrophysical Journal*, **2020**, 901, 67	4.7	20
37	Verification of Radiative Transfer Schemes for the EHT. *Astrophysical Journal*, **2020**, 897, 148	4.7	18
36	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. *Astrophysical Journal Letters*, **2019**, 875, L3	7.9	267
35	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. *Astrophysical Journal Letters*, **2019**, 875, L2	7.9	325
34	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L4	7.9	411
33	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L1	7.9	1110
32	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. *Astrophysical Journal Letters*, **2019**, 875, L5	7.9	429
31	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L6	7.9	466
30	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. *Astrophysical Journal, Supplement Series*, **2019**, 243, 26	8	96
29	SN 2018hna: 1987A-like Supernova with a Signature of Shock Breakout. *Astrophysical Journal Letters*, **2019**, 882, L15	7.9	6

28	Optical Emission and Particle Acceleration in a Quasi-stationary Component in the Jet of OJ 287. *Astrophysical Journal*, **2018**, 864, 67	4.7	4
27	Understanding the general feature of microvariability in Kepler blazar W2R 1926+42. *Publication of the Astronomical Society of Japan*, **2017**, 69, 15	3.2	10
26	Study of the Time-Series of Microvariability in Kepler Blazar W2R 1926+42. *Galaxies*, **2017**, 5, 13	2	
25	MULTIFREQUENCY PHOTO-POLARIMETRIC WEBT OBSERVATION CAMPAIGN ON THE BLAZAR S5 0716+714: SOURCE MICROVARIABILITY AND SEARCH FOR CHARACTERISTIC TIMESCALES. *Astrophysical Journal*, **2016**, 831, 92	4.7	34
24	The Optical Variability of the BL Lac AO 0235+164. *Galaxies*, **2016**, 4, 17	2	1
23	SYSTEMATIC STUDY OF GAMMA-RAY-BRIGHT BLAZARS WITH OPTICAL POLARIZATION AND GAMMA-RAY VARIABILITY. *Astrophysical Journal*, **2016**, 833, 77	4.7	32
22	An emergence of a new polarized emission region in blazar Mrk 421 associated with an X-ray flare. *Publication of the Astronomical Society of Japan*, **2015**, 67, 45	3.2	3
21	HONIR: an optical and near-infrared simultaneous imager, spectrograph, and polarimeter for the 1.5-m Kanata telescope **2014**,		23
20	Variable optical polarization during high state in □ray loud, narrow-line Seyfert 1 galaxy 1H 0323+342. *Publication of the Astronomical Society of Japan*, **2014**, 66, 108	3.2	16
19	ANTI-CORRELATED OPTICAL FLUX AND POLARIZATION VARIABILITY IN BL LAC. *Astrophysical Journal Letters*, **2014**, 781, L4	7.9	20
18	EXTREMELY HIGH POLARIZATION IN THE 2010 OUTBURST OF BLAZAR 3C 454.3. *Astrophysical Journal*, **2014**, 784, 141	4.7	7
17	A Study of the Long-Term Spectral Variations of 3C 66A Observed with the Fermi and Kanata Telescopes. *Publication of the Astronomical Society of Japan*, **2013**, 65, 18	3.2	3
16	X-Ray and Optical Monitoring of a Gamma-Ray-Emitting Radio Galaxy, NGC 1275. *Publication of the Astronomical Society of Japan*, **2013**, 65, 30	3.2	14
15	Photopolarimetric Monitoring of the Blazar BL Lac in the Optical and Near-Infrared Bands: Decay of the Long-Lived Component. *Publication of the Astronomical Society of Japan*, **2013**, 65, 35	3.2	6
14	DENSE OPTICAL AND NEAR-INFRARED MONITORING OF CTA 102 DURING HIGH STATE IN 2012 WITH OISTER: DETECTION OF INTRA-NIGHT □ORPHAN POLARIZED FLUX FLARE□*Astrophysical Journal Letters*, **2013**, 768, L24	7.9	15
13	A LUMINOUS AND FAST-EXPANDING TYPE Ib SUPERNOVA SN 2012au. *Astrophysical Journal Letters* , **2013**, 772, L17	7.9	27
12	Simultaneous Visible and Near-Infrared Variability of Classical T Tauri Stars. *Proceedings of the International Astronomical Union*, **2013**, 8, 149-150	0.1	
11	An optical and near-infrared multipurpose instrument HONIR **2012**,		7

10	Multi-Wavelength Photometric and Polarimetric Observations of the Outburst of 3C 454.3 in 2009 December. *Publication of the Astronomical Society of Japan*, **2012**, 64, 58	3.2	19
9	Prominent polarized flares of the blazars AO 0235+164 and PKS 1510089. *Journal of Physics: Conference Series*, **2012**, 355, 012023	0.3	1
8	Photopolarimetric Monitoring of Blazars in the Optical and Near-Infrared Bands with the Kanata Telescope. I. Correlations between Flux, Color, and Polarization. *Publication of the Astronomical Society of Japan*, **2011**, 63, 639-675	3.2	123
7	Prominent Polarized Flares of the Blazars AO 0235164 and PKS 1510089. *Publication of the Astronomical Society of Japan*, **2011**, 63, 489-497	3.2	25
6	Multiband Photopolarimetric Monitoring of an Outburst of the Blazar 3C 454.3 in 2007. *Publication of the Astronomical Society of Japan*, **2010**, 62, 645-652	3.2	36
5	Bayesian Approach to Find a Long-Term Trend in Erratic Polarization Variations Observed in Blazars. *Publication of the Astronomical Society of Japan*, **2010**, 62, 69-80	3.2	25
4	Anti-Correlation of Near-Infrared and X-Ray Variations of the Microquasar GRS 1915+105 in the Soft State. *Publication of the Astronomical Society of Japan*, **2009**, 61, L1-L5	3.2	4
3	Detection of Polarimetric Variations Associated with the Shortest Time-Scale Variability in S5 0716+714. *Publication of the Astronomical Society of Japan*, **2008**, 60, L37-L41	3.2	45
2	Gravitational Wave Physics and Astronomy in the nascent era. *Progress of Theoretical and Experimental Physics*,	5.4	1
1	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. *Nature Astronomy*,	12.1	13